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(54) DNA VACCINE

(57) Abstract:

PURPOSE: To provide a DNA vaccine which comprises a plasmid including a base sequence coding for specific genetic information on human immunodeficiency virus(HIV) and can induce humoral and cell-mediated immunity, thus is useful in prophylaxis and treatment for AIDS with high safety.

CONSTITUTION: This DNA vaccine has a base sequence coding for at least a part of genetic information on the envelope protein of HIV (typically, the base sequence is connected with the downstream of a base sequence coding for the promotor region of cytomegalovirus, gp160, a part of gp160) and comprises a plasmid which can express the gene information in

mammalian cells. Preferably, this vaccine includes another plasmid which has a base sequence coding for genetic information on the protein rev and can be expressed in mammalian cells.

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